





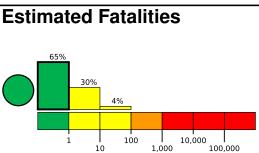
Created: 3 weeks, 0 days after earthquake

PAGER

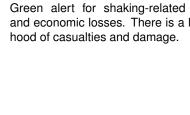
Version 7

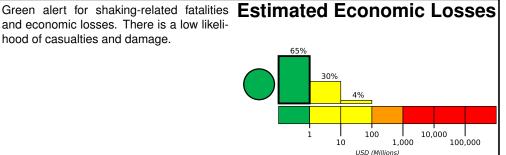
M 5.3, Chile-Bolivia border region

Origin Time: 2023-09-12 04:58:37 UTC (Tue 01:58:37 local) Location: 20.6506° S 68.4971° W Depth: 107.6 km



and economic losses. There is a low likeli-





Estimated Population Exposed to Earthquake Shaking

		_								
ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	550k	7k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY			11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

68.2°W 69.4°W dlguique 20.2 21.4 50

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are adobe block and rubble/field stone masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking	
(UTC)	(km)		MMI(#)	Deaths	
2001-07-24	144	6.3	V(36k)	1	
1987-08-13	396	6.5	VII(62k)	1	
1981-06-21	200	5.7	VII(6k)	10	

Recent earthquakes in this area have caused secondary hazards such as landslides that might have contributed to losses.

Selected City Exposure

iioiii a	eorvanies.org	
MMI	City	Population
Ш	Iquique	227k
Ш	Uyuni	10k
Ш	Colchani	12k
Ш	Cruz de Machacamarca	<1k
II	Challapata	8k
II	Tocopilla	24k

bold cities appear on map.

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.